

# XP-002242201

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- TI - METHOD FOR PREPARING SUPERFINES
- AB - In the vacuum and inert gas of tubular high-temp reactor, metallic vapour, halide, hydride or organic metal compound as material is heated and reacted chemically into particles, which are sharply cooled and pumped into powder collector of superfines. The said metallic vapour is Ag, Ni or Cu vapour, halide is  $\text{C}_3\text{SiCl}_3$ ,  $\text{SiCl}_4$  hydride is  $\text{SiH}_4$ ,  $\text{C}_2\text{H}_4$ ,  $\text{CH}_4$  or  $\text{NH}_3$ ; and organic metal compound is  $\text{LiOC}_2\text{H}_5$ ,  $\text{Ba}(\text{OC}_2\text{H}_5)_2$  or  $\text{Cu}(\text{OC}_2\text{H}_5)_2$ . The said method produces nanometer-level stoichiometrical beta-SiC superfines with particle size less than 100 angstroms.
- IC - B22F9/12